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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/182,911	10/30/1998	BARRY G. WILKS	0100.9800830	2532

7590 03/24/2004

JOHN R. GARRETT  
MARKISON & RECKAMP, P.C.  
P.O. BOX 06229  
WACKER DRIVE  
CHICAGO,, IL 60606-0229

EXAMINER

LESPERANCE, JEAN E

ART UNIT	PAPER NUMBER
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2674

DATE MAILED: 03/24/2004

33

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/182,911

Applicant(s)

WILKS, BARRY G.

Examiner

Jean E Lesperance

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2003.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 4-6, 8, 10-18, 20-22, 24-26, 29, 35-37, 39 and 41-48 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 13-18 and 29 is/are allowed.
- 6) ☒ Claim(s) 4-6, 8, 10-12, 20-22, 24-26, 35-37, 39 and 41-48 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 October 1998 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

Claims 4-6, 8, 10-18, 20-22, 24-26, 29, 35-37, 39, 41-48 are presented for examination.

#### Claim Rejections - 35 U.S. C. § 103

3. The following is a quotation of 35 U. S. C. 103 (a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4-6, 8, 10-12, 20-22, 24-26, 35-37, 39, 41-48 are rejected under 35 U.S.C. 102 (b) as being unpatentable over U.S. Patent # 4,990,902 ("Zenda") in view of U.S. Patent # 6,067,071 ("Kotha et al.").

As for claims 4, 20, and 42, Zenda teaches a CRTC 13 receives a display timing signal parameter on system bus 3 in synchronism with display timing set command A supplied from CPU 1 through AND gate 15 (column 4, lines 11-14) corresponding to a) receiving display capability parameters regarding a first display of the multiple displays; the display timing signal generating parameters can be changed in correspondence with different display modes resolutions (column 2, lines 66-68) corresponding to b) substituting selected display capabilities of a second display of the multiple display for the received display capability parameters of the first display; and display resolution selecting means selects a display resolution (column 8, lines 43-44) corresponding to c) using the selected display capabilities of the second display with said first display; and then the power switch of the system is turned on, CPU 1 executes the display area

control processing routine in BIOS 21 (column 4, lines 46-48) corresponding to wherein step (a) further comprises receiving the capability parameters in accordance with a system start-up. Accordingly, Zenda teaches all the claimed limitations as recited in claims 4, 5, and 20 with the exception of providing the capability parameters comprise display resolution and display pixel depth.

However, Kotha et al. teach two video signals having different refresh rates and resolutions (column 5, lines 25-26) corresponding to a display refresh rate.

It would have been obvious to utilize video signals with different refresh rate as taught by Kotha et al. in the display area control system disclosed by Zenda because this would allow the display controller to output at least one of a plurality of different graphics display resolutions to a fixed resolution panel display.

As for claims 6, 22, 26, 37, and 43, Zenda teaches the display timing parameters must correspondingly be changed when a display screen is changed (column 3, lines 11 and 12) corresponding to receiving the capability parameters in response to a monitor change process.

As for claims 8, 24, and 39, Zenda teaches a CPU Fig. 1 (1) corresponding to a processing module; and ROM Fig. 1 (5) corresponding to memory operably coupled to the processing module, wherein the memory includes operational instructions that cause the processing module to a CRTC 13 receives a display timing signal parameter on system bus 3 in synchronism with display timing set command a supplied from CPU 1 through AND gate 15 (column 4, lines 11-14) corresponding to a) receiving capability parameters regarding a first display of the multiple displays; the display timing signal

generating parameters can be changed in correspondence with different display modes resolutions (column 2, lines 66-68) corresponding to b) substituting selected display capabilities for the received capability parameters; and display resolution selecting means selects a display resolution (column 8, lines 43-44) corresponding to c) providing the selected display capabilities to an operating system; a display area control system for displaying on a flat panel display apparatus applied data generated by a desired application program, the display apparatus having the capability to display data corresponding to a plurality of different display resolutions (column 7, 8-13) corresponding to operational instructions that cause the processing module to determine the selected display capabilities based on a composite of the display parameters of each multiple displays.

As for claims 10, 12, and 41, Zenda teaches When the power switch of the system is turned on, CPU 1 executes the display area control processing routine in BIOS 21 (column 4, lines 46-48) corresponding the memory further comprises operational instructions that causes the processing module to receive capability parameters in accordance with a system start-up and to monitor change process.

As for claims 5, 11, 21, 25, and 36, Zenda teaches a display resolution selecting means selects a display resolution (column 8, lines 43-44) corresponding to providing the selected display capabilities to an operating system; a display mode set command is input at keyboard 23 during execution of the application program, CPU 1 supplies display mode set command A to one input terminal of AND gate 15 through system bus 3, and executes the display mode set routine in BIOS 21. If it is determined in step 41

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that the display mode is not altered, the flow advances to step 55, and CPU 1 executes initialization including clearing of V-RAM 9 (column 5, lines 4-12) corresponding to identify the capability parameters as primary parameters.

As for claim 35, Kotha et al. teach the controller of the present invention uses a Discrete Time Oscillator (DTO) based clock divider and DCT based polyphase interpolation to upscale graphics display data from a first resolution to the panel resolution (abstract) corresponding to a display with a video graphic card. It is well known in the art to have a graphic display there must exist a video graphic card.

As for claims 44-48, Zenda teaches a display resolution selecting means selects a display resolution which differs from the display resolution corresponding to the designated set of display timing signal generating parameters, and when the predetermined number of picture elements in the horizontal direction of the selected display resolution is smaller than the maximum number of picture elements in the horizontal direction, said control means generates display timing signals so that non-display areas having picture elements which number a difference between the predetermined and maximum numbers of picture elements in the horizontal direction are formed on the right and left portions of the physical screen of the flat panel display apparatus (column 8, lines 58-68) corresponding to capability parameters that exceed the display parameters of each of the multiple displays. It means that the selected display capability parameters is twice the display parameters of each of the multiple displays.

**Allowable Subject Matter**

Claims 13-18 and 29 are allowed.

The following is a statement for indicating the allowable subject matter: the claimed invention is directed to a digital storage medium for storing operational instructions to support multiple displays. Claim 13 identifies a uniquely distinct feature "first storage means for storing operational instructions that cause the processing module to receive capability parameters regarding a first display of the multiple displays wherein the capability parameters comprise display resolution and display pixel depth second storage means for storing operational instructions that cause the processing module to substitute selected display capabilities for the capability parameters; and third storage means for storing operational instructions that cause the processing module to provide the selected display capabilities to an operating system".

***Response to Amendment***

Applicant's arguments filed 11-3-2003 have been fully considered but they are not persuasive. The applicant argued that the prior art using display parameters of one display on another display or on multiple display. Examiner disagrees because the prior art (Zenda) teaches a display timing signals, generating parameter setting command output from AND gate 41, the PDs are set in register 27 in CRTC 25 (column 4, lines 20-23) corresponding to display parameters of one display on another display or on multiple display. The applicant has to further amend the claims to be more specific in order to overcome the prior art of record. Therefore the rejection is maintained.

### **Conclusion**

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is (703) 308-6413. The examiner can normally be reached on from Monday to Friday between 8:00AM and 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709 .

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D. C. 20231

**or faxed to:**



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(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park 11, 2121 Crystal drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Jean Lesperance



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Date 3-19-2004



RICHARD HJERPE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600